REFERENCES

1. Badgujar SD, Sontakke MA, Narute DR, et al., (2010), Formulation and evaluation of sumatriptan succinate nasal in situ gel using fulvic acid as novel permeation enhancer, Intl. J Pharma, R & D, 2., 39–52.
2. Basu S, Bandyopadhyay AK (2010), Development and characterization of mucoadhesive in situ nasal Gel of midazolam prepared with Ficuscarica mucilage, AAPS PharmSciTech., 11.,1223–1231.
3. Bhandwalkar MJ, Avachat AM (2013), Thermoreversible nasal in situ gel of venlafaxine hydrochloride: formulation, characterization, and pharmacodynamic evaluation, AAPS PharmSciTech., 14(1) ., 101–110.
4. Cai Z, Song X, Sun F, Yang Z, Hou S, Liu Z (2011). Formulation and evaluation of in situ gelling systems for intranasal administration of gastrodin, AAPS Pharm Sci Tech, ., 1102-1109.
5. Cao SL, Zhang QZ, Jiang XG (2007), Preparation of ion-activated in situ gel systems of scopolamine hydrobromide and evaluation of its antimotion sickness efficacy, Acta Pharmacol. Sin., 28(4)., 584–590.
6 .Chelladurai S, Mishra M, Mishra B (2008), Design and evaluation of bioadhesive in situ nasal gel of ketorolac tromethamine, Chem. Pharm. Bull., 56: 1596–1599.
7. Dattatraya J. Yadav, Harish K Kujnuwani, Sarika S Surya Wanshi, (2012), formulation and evaluation of thermo sensitive in situ gel of salbutamol sulphate for nasal drug delivery system. Int journal of Pharmacy and Pharmaceutical science, 1 (4)., 188-194.
8. Ding X, Alani AWG, Robinson JR (2006), Extended release and Targeted Drug Delivery System. In: Troy DB Remington: The Science and Practice of Pharmacy, 21st ed., Lipincott Williams and Wilkins, Philadelphia.,939–940.
9. En Chen, Jun Chen, Shi-lei Cao, et al., (2010), Preparation of nasal temperature-sensitive in situ gel of Radix Bupleuri and evaluation of the febrile response mechanism, Drug Dev. Ind. Pharm, 36 .,490–496.
10. Feighner JP (1994), The role of venlafaxine in rational antidepressant therapy, J Clin. Psychiatry, 55., 98–100.

11. Furubayashi T, Kamaguchi A, Kawaharada K, et al., (2007), Evaluation of the contribution of the nasal cavity and gastrointestinal tract to drug absorption following nasal application to rats, Biol. Pharm. Bull., 30(3) .,608–611.
12. Galgatte UC, Kumbhar AB, Chaudhari PD (2014), Development of in situ gel for nasal delivery: design, optimization, in vitro and in vivo evaluation, Drug Deliv., 21(1).,62–73.
13. Gowda DV (2011), Formulation and evaluation of in situ gel of diltiazem hydrochloride for nasal delivery, Der. Pharmacia. Lettre., 3.,371–381.
14. Hafner A, Filipovic-Grcic J, Voinovich D, et al., (2007), Development and in vitro characterization of chitosan-based microspheres for nasal delivery of promethazine, Drug Dev. Ind. Pharm., 33(4).,427–436.
15. Hardikar Sharwaree, Barve Priyanka, etal., (2012) development of mucoadhesive nasal in situ gel to sustain the release of Amitriptyline hydrochloride, International Journal of biological and Pharmaceutical Research 3 (8) ., 980-989
16. Hay JW, Kaliner MA (2009), Costs of second-generation antihistamines in the treatment of allergic rhinitis: US perspective, Curr. Med. Res. Opin. 25(6)., 421–431.
17. Iman I. Soliman, Nadia A. Soliman, et al., (2010), Formulation and stability study of chlorpheniramine maleate nasal gel, Phar. Dev. Technol., 15., 484–491.
18. Inayat Bashir Pathan, Vijay Chudiwal, Irfan Faroopui etal., (2013) Formulation design and evaluation of nasal in situ gel as a novel vehicle for Azelastine hydrochloride. Int. Journal of Drug Delivery 5., 284-290.
19. Kedan Chu, Lidian Chen, Weixu etal, (2013) Preparation of a Paeonol containing temperature sensitive in situ gel and its preliminary efficacy on Allergic rhinitis, Int. journal of Molecular Sciences 14.,6499-6515
20. Ketousetuo Kuotsu, Bandyopadhyay AK (2007), Development of oxytocin nasal gel using natural mucoadhesive agent obtained from the Fruits of Delliniaindica L, Science Asia, 33., 57–60.
21. Khan S, Gajbhiye C, Singhavi DJ, et al., (2012), In situ Gel of Metoprolol Tartrate: Physicochemical Characterization, In vitro Diffusion and Histological Studies, Indian J Pharm. Sci., 74(6) ., 564–570.

22. Li C, Liu Z, Li Q, et al., (2014), Enhancement in bioavailability of ketorolac tromethamine via intranasal in_situ_hydrogel based on poloxamer 407 and carrageenan, Int. J Pharm., 474 .,123–133.
23. Marttin E, Schipper NGM, Verhoef JC, et al., (1998), Nasal mucociliary clearance as a factor in nasal drug delivery, Adv. Drug Del. Rev., 29.,13–38.
24. Meenakshi P, Hetal T, Kasture PV (2010), Preparation and evaluation of thermoreversible formulations of flunarizine hydrochloride for nasal delivery, Int J Pharm. Pharm. Sci, 2., 115–120.
25. M. Vijaya Kumar, Aravindram. A. S, Rohitashk, etal, (2012), Formulation and evaluation of in situ gel of Bromhexine hydrochloride for nasal delivery, Der Pharmacia Sinica, 3(6)., 699-707.
26. Parmar Viram A. N. Lumbhani (2012) development and evaluation of ion dependent in situ gelling systems of metoclopramide hydrochloride as an antimigraine model drug, Internationa Journal of latest research in science and technology, 1 (2)., 80-89.
27. Pradnya P. Jadhav, Namdeo R. Jadhav etal, (2013) development and evaluation of in situ thermo responsive nasal gel system for Nardostachys Jatamansi, Der Pharmacia Lette , 5 (2)., 113-125.
28. Pramod K. Kolsure, B. Rajkapoor (2012), Development of Zolmitriptan gel for nasal administration, Asian Journal of Pharmaseutical and Clinical Research 5 (3)., 88-94.
29. Praveen C, Amit A, Prashanth M, et al., (2009), Development and In vitro evaluation of thermoreversible nasal gel formulations of rizatriptan benzoate, Ind. J Pharm. Educ. Res., 43 .,55–62.
30. Puratchikody A, Prasanth VV, Mathew Sam. T., et al., (2011), Mucoadhesive patches of Salbutamol sulphate for unidirectional buccal drug delivery: Development and evaluation, Curr. Drug Deliv., 8 .,416–425.
31. Qian S, Wong YC, Zuo Z (2014), Development, characterization and application of in situ gel systems for intranasal delivery of tacrine, Int. J Pharm., 468:272–282.
32 Ragua M Farid, Mohamed Aetman, Aly H Nada (2013), Formulation and in vitro evaluation of salbutamol sulphate in situ gelling nasal inserts, AAPS PharmSciTech. Jun, 14(2) .,712–718.

33. Ravi PR, Aditya N, Patil S, et al., (2013), Nasal in situ gels for delivery of rasagiline mesylate: improvement in bioavailability and brain localization, Drug Deliv., 2013 Nov 29.
34. Shaji J, Maratha SW (2008), Nasal drug delivery system: opportunities and challenges, Ind. Drugs, 45.,345–353.
35. Shah RA, Mehta MR, Patel DM, et al., (2011), Design and optimization of mucoadhesive nasal in situ gel containing sodium cromoglycate using factorial design, Asian Journal of Pharmaceutics, 5., 65–74..
36. Shinde JS (2008), In situ mucoadhesive nasal gels of metoclopramide hydrochloride: preformulation and formulation studies, J Pharm. Res., **1**(1)., 88–96.
37. Singh RM, Kumar A, Pathak K (2013), Thermally triggered mucoadhesive in situ gel of loratadine: β-cyclodextrin complex for nasal delivery, AAPS PharmSciTech., 14(1)., 412–424.
38..Soliman II, Soliman NA, Abdou EM (2010), Formulation and stability study of chlorpheniramine maleate nasal gel, Pharm. Dev. Technol., 15(5)., 484–491.
39. Suresh S, Bhaskaran S (2003). Nasal drug Delivery: an overview, Ind. J Pharm. Sci., 65., 19–25.
40. Tanaji Nandgude, Thube R, Jaiswal N, et al., (2008), Formulation and evaluation of pH Induced in-situ nasal gel of salbutamol sulphate, Int. J Pharm. Sci. Nanotech., 1., 177–183.
41. Umesh D. Shivhare, Sachin R. Thawkar (2013) Formulation development and evaluation of in situ nasal gel. Asian Journal of Pharmacy and Life Suence 3(2) 104-114.